



- Easy installation with double-sided articulated body structure
- Square body (shaft diameter 6 mm)
- 0-10VDC Analog output and other options
- Measuring distances from 50 mm to 1000 mm
- 0.01 mm Resolution
- Long life with 100 million moves
- High operating speed 5 m / s
- 5 K or 10 K resistor options (other resistor values optional)
- Maximum Angular Motion  $\pm 30^\circ$
- High linearity 0.3%

The LTC Series operates on a potentiometric principle. With the help of the electronic circuit inside, LTC-V series is 0-10 VDC voltage output and optionally 0-5 VDC output models can be produced. The LTC series is the double-articulated version of the LTM series. In these models, the socket comes out at 90 degrees from the body.

Thanks to its high resolution of 0.01 mm, precise measurements can be made. Since they are analog outputs, they operate as ABSOLUTE, they do not lose their position during power cuts and continue to measure from where they left off.

The linearized conductive plastic (Carbon + Plastic alloy) resistive alloy and special contacts are not affected by abrasion and operate for long periods with motion lives of up to 100 million. Because they make the resistance change linear by special methods, they make stable and equal measurements every time. They have angular motion capability during operation and mounting up to max.  $30^\circ$  due to articulation.

#### LTP-A Series 4-20mA Analog Linear Transducer Applications:

- Bending Presses
- Marble Machines
- Blood Pressure Control Systems
- Saw Machines
- Transfer Machines
- Hydraulic Machines
- Metal Working Benches
- Pipe Bending Machines
- Textile Machinery
- Other automation applications

#### Technical Specifications

|                           |                                                                                                                                                          |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Defined Electrical Ranges | 50 - 75 - 100 - 125 - 150 - 175 - 200 - 225 - 250 - 275 - 300 - 325 - 350 - 360 - 375 - 400 - 450 - 500 - 550 - 600 - 650 - 700 - 750 - 800 - 900 - 1000 |
| Output Signals            | 0-10 VDC Analog Output ( other models optional )                                                                                                         |
| Independent Linearity     | $\pm 0,3$                                                                                                                                                |
| Electrical Connection     | 4 pin female socket                                                                                                                                      |
| Power Supply              | 24 VDC                                                                                                                                                   |
| Resistance                | 5K or 10Kohm and other ( $\pm 20$ tolerance )                                                                                                            |
| Operating Temperature     | $-30^\circ\text{C}$ $+100^\circ\text{C}$                                                                                                                 |
| Life                      | 100 million movements                                                                                                                                    |
| Mechanical Connection     | With 2 ball-joints or adjustable distance clamps                                                                                                         |
| Spindle Material          | Stainless steel                                                                                                                                          |
| Body Material             | Anodized aluminium                                                                                                                                       |
| Protection Class          | IP 54                                                                                                                                                    |

#### Order Code

#### Model No

L T C - 5 0 0 - V

#### Length Options / Measuring Length

Choice of measuring sizes from 50 mm to 750 mm

#### Output

V : 0-10 VDC Analog Voltage Output

\*\*Optional 0-5 VDC Voltage Output

#### Included in Delivery

1 Connector / 4 pin female socket

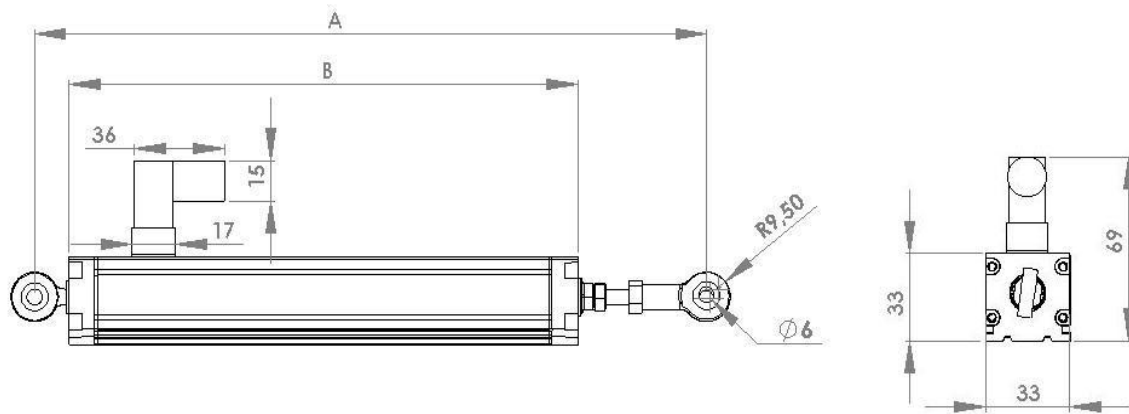
\*\*Optional fixing clamps

#### Recommended Accessories

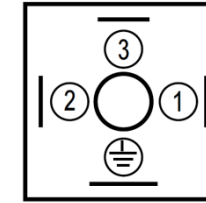
Process-controlled indicators "ALP Series"



## Mechanical Measurements



## Connections



### 0-10VDC ANALOG OUTPUT

1. +24 VDC Supply
2. Analog Output  
0-10 VDC Voltage Output
3. GROUND
4. SHIELD

Note: The GND line of the Feed and Signal output is common. It can therefore be connected with a 3-wire cable.

| MODEL                                       | LTC 50 | LTC 75 | LTC 100 | LTC 125 | LTC 150 | LTC 175 | LTC 200 | LTC 225 | LTC 250 | LTC 275 | LTC 300 | LTC 325 | LTC 350 | LTC 360 | LTC 375 | LTC 400 | LTC 450 | LTC 500 | LTC 550 | LTC 600 | LTC 650 | LTC 700 | LTC 750 | LTC 800 | LTC 900 | LTC 1000 |  |  |
|---------------------------------------------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|--|--|
| STROKE                                      | 50     | 75     | 100     | 125     | 150     | 175     | 200     | 225     | 250     | 275     | 300     | 325     | 350     | 360     | 375     | 400     | 450     | 500     | 550     | 600     | 650     | 700     | 750     | 800     | 900     | 1000     |  |  |
| MECHANICAL STROKE (mm)                      | 54     | 79     | 104     | 129     | 154     | 179     | 204     | 229     | 254     | 279     | 304     | 329     | 354     | 364     | 379     | 404     | 454     | 504     | 554     | 604     | 654     | 704     | 754     | 804     | 904     | 1004     |  |  |
| ELECTRICAL STROKE (mm)                      | 50     | 75     | 100     | 125     | 150     | 175     | 200     | 225     | 250     | 275     | 300     | 325     | 350     | 360     | 375     | 400     | 450     | 500     | 550     | 600     | 650     | 700     | 750     | 800     | 900     | 1000     |  |  |
| MECHANICAL DIMENSIONS                       |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |          |  |  |
| DISTANCE BETWEEN ARTICULATED (A) (mm) ±2 mm | 220    | 245    | 270     | 295     | 320     | 345     | 370     | 395     | 420     | 445     | 470     | 495     | 520     | 530     | 545     | 570     | 620     | 670     | 720     | 770     | 820     | 870     | 920     | 970     | 1070    | 1170     |  |  |
| BODY LENGTH (B) (mm) ±2 mm                  | 150    | 175    | 200     | 225     | 250     | 275     | 300     | 325     | 350     | 375     | 400     | 425     | 450     | 460     | 475     | 500     | 550     | 600     | 650     | 700     | 750     | 800     | 850     | 900     | 1000    | 1100     |  |  |



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